

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C30B29/04, H01L21/205

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ C30B29/04, H01L21/205

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE, WPI, JSTPlus (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 646968 A1 (SONY CORP.),	1-3, 7
Y	05 April, 1995 (05.04.95),	4-6
A	Column 3, lines 27 to 45; Claims 1 to 8 & JP 7-106266 A & US 5508208 A	8-14
Y	R. KALISH, The search for donors in diamond. Diamond and Related Materials, 2001, Vol.10, pages 1749 to 1755; '6.1. Nitrogen' oyobi '6.3. Lithium and sodium' no Ko	4-6
A	JP 10-247624 A (Asahi Chemical Industry Co., Ltd.), 14 September, 1998 (14.09.98), (Family: none)	1-14

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not
considered to be of particular relevance
"E" earlier document but published on or after the international filing
date
"L" document which may throw doubts on priority claim(s) or which is
cited to establish the publication date of another citation or other
special reason (as specified)
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means
"P" document published prior to the international filing date but later
than the priority date claimed

"T" later document published after the international filing date or
priority date and not in conflict with the application but cited to
understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be
considered novel or cannot be considered to involve an inventive
step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be
considered to involve an inventive step when the document is
combined with one or more other such documents, such
combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
24 February, 2004 (24.02.04)

Date of mailing of the international search report
09 March, 2004 (09.03.04)

Name and mailing address of the ISA/
Japanese Patent Office

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